

PROJECT DESCRIPTION

THIS PROJECT INVOLVES MODIFICATION OF THE EXISTING TRAFFIC CONTROL SIGNAL AT THE INTERSECTION OF MD 528 (PHILADELPHIA AVENUE) AND 15TH STREET IN WORCESTER COUNTY. L.E.D. COUNTDOWN PEDESTRIAN SIGNALS AND APS PEDESTRIAN PUSH-BUTTONS AND SIGNS WILL BE INSTALLED AT THIS LOCATION. MD 528 IS ASSUMED TO RUN IN A NORTH-SOUTH DIRECTION.

INTERSECTION OPERATION

THIS INTERSECTION CURRENTLY OPERATES IN A NEMA FIVE-PHASE FULLY TRAFFIC-ACTUATED MODE WITH AN EXCLUSIVE-PERMISSIVE LEFT TURN PHASE FOR NORTHBOUND MD 528, AND ALTERNATE PEDESTRIAN PHASE FOR CROSSING THE SOUTH LEG OF THE INTERSECTION. THE CONCURRENT PHASES ON THE EAST AND WEST LEGS ARE BEING REMOVED.

CONTROLLER REQUIRMENTS

THE EXISTING FULL-TRAFFIC-ACTUATED EIGHT PHASE TRAFFIC SIGNAL CONTROLLER HOUSED IN A BASE MOUNTED CABINET WILL BE USED. AN APS CENTRAL CONTROL UNIT WILL BE INSTALLED BY THE CONTRACTOR.

CONTACT PERSONS FOR DISTRICT 1 ARE AS FOLLOWS:

MR. GENE COFIELL
ASSISTANT DISTRICT ENGINEER - TRAFFIC
PHONE: (410) 677-4040

MR. JIMMY WRIGHT
ASSISTANT DISTRICT ENGINEER - MAINTENANCE
PHONE: (410) 543-6715

MR. BRUCE POOLE
ASSISTANT DISTRICT ENGINEER - UTILITY
PHONE: (410) 677-4082

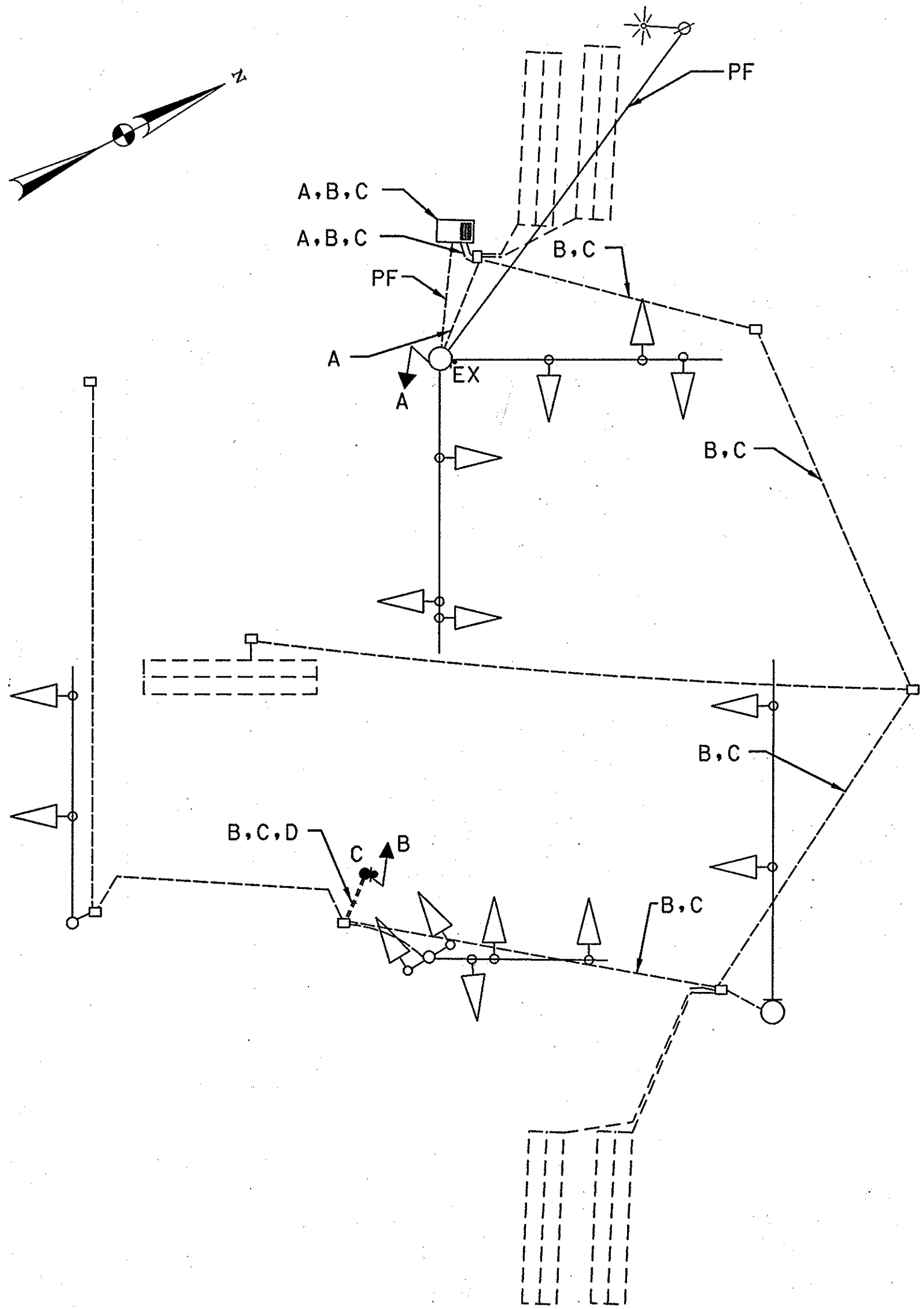
CONTACT PERSONS FOR OOTS ARE AS FOLLOWS:

MR. RICHARD L. DAFF, SR.
CHIEF, TRAFFIC OPERATIONS DIVISION
PHONE: (410) 787-7630

MR. ED RODENHIZER
SIGNAL SHOP
PHONE: (410) 787-7652

MR. SONNY BAILEY
SIGN SHOP
PHONE: (410) 787-7670

WIRING DIAGRAM



EQUIPMENT LIST "A"

A. EQUIPMENT TO BE FURNISHED BY SHA

| ITEM NO. | DESCRIPTION | UNIT | QUANTITY |
|----------|---|------|----------|
| 9571 | SHEET ALUMINUM POLE MOUNT 2 - R10-4(1) (9"x12" - PHILADELPHIA AVE) | SF | 2 |

EQUIPMENT LIST "B"

B. EQUIPMENT TO BE FURNISHED AND/OR INSTALLED BY CONTRACTOR.

| ITEM NO. | DESCRIPTION | UNIT | QUANTITY |
|----------|--|------|----------|
| 1001 | MAINTENANCE OF TRAFFIC | EA | * |
| 2002 | TEST PIT EXCAVATION | CY | 1 |
| 6004 | F&I 4" CONCRETE SIDEWALK | SF | 110 |
| 8001 | F&I CONCRETE FOUNDATION | CY | 1 |
| 8020 | FURNISH AND INSTALL PEDESTAL POLE ANY SIZE | EA | 1 |
| 8021 | REMOVE & DISPOSE MATERIAL & EQUIPMENT (PER ASSIGNMENT) | EA | ** |
| 8030 | REMOVE - RESET DECORATIVE BRICK SIDEWALK | SF | 40 |
| 8033 | F&I NO. 6 AWG STRANDED BARE COPPER GROUND WIRE | LF | 15 |
| 8041 | F&I 3" SCHEDULE 80 RIGID PVC CONDUIT - TRENCHED | LF | 8 |
| 8057 | INSTALL OVERHEAD SIGN | SF | 2 |
| 8084 | F&I ELECTRICAL CABLE - 2 CONDUCTOR (NO. 14 A.W.G.) | LF | 305 |
| 8086 | F&I ELECTRICAL CABLE - 5 CONDUCTOR (NO. 14 A.W.G.) | LF | 370 |
| 8099 | F&I 16" LED COUNTDOWN PEDESTAL SIGNAL HEADS | EA | 2 |
| 8104 | F&I APS PUSHBUTTON & ASSY. | EA | 2 |
| 8105 | FURNISH & DELIVER APS CENTRAL CONTROL UNIT | EA | 1 |

* - MOT QUANTITIES ARE SHOWN ON LAST GI SHEET
** - REMOVE & DISPOSE QUANTITIES ARE SHOWN ON THE LAST GI SHEET

EQUIPMENT LIST "C"

ALL UNUSED EQUIPMENT AND MATERIAL REMOVED BY THE CONTRACTOR SHALL BECOME THE PROPERTY OF THE CONTRACTOR.

PHASING CHART

| | 1 | 2 | 3 | 4 | 5 | 6 | 7 | 8 | 9 | 10 | 11 | 12 | 13 | 14 | 15 | 20 | 21 |
|-------------------------|--------|--------|------|------|------|------|------|------|------|------|--------|--------|------|------|------|-------|-------|
| PHASE 1 & 6 | FL/8"Y | FL/8"Y | G | G | G | R | R | R | R | R | R | R | R | R | R | DW | DW |
| 1 CHANGE | FL/8"Y | FL/8"Y | G | G | G | R | R | R | R | R | R | R | R | R | R | DW | DW |
| PHASE 2 & 6 | FL/8"Y | FL/8"Y | G | G | G | G | G | R | R | R | R | R | R | R | R | DW | DW |
| 2 & 6 CHANGE | FL/8"Y | FL/8"Y | Y | Y | Y | Y | Y | R | R | R | R | R | R | R | R | DW | DW |
| PHASE 3 | FL/8"Y | FL/8"Y | R | R | R | R | R | R | R | R | R | R | G | G | G | DW | DW |
| 3 CHANGE | FL/8"Y | FL/8"Y | R | R | R | R | R | R | R | R | R | R | Y | Y | Y | DW | DW |
| PHASE 4 | FL/8"Y | FL/8"Y | R | R | R | R | R | G | G | G | R | R | R | R | R | DW | DW |
| 4 CHANGE | FL/8"Y | FL/8"Y | R | R | R | R | R | Y | Y | Y | R | R | R | R | R | DW | DW |
| PHASE 4 ALT. | FL/8"Y | FL/8"Y | R | R | R | R | R | G | G | G | R | R | R | R | R | W | W |
| PED CLEARANCE/COUNTDOWN | FL/8"Y | FL/8"Y | R | R | R | R | R | G | G | G | R | R | R | R | R | FL/DW | FL/DW |
| 4 ALT. CHANGE | FL/8"Y | FL/8"Y | R | R | R | R | R | Y | Y | Y | R | R | R | R | R | DW | DW |
| CLEARANCE A | Y | Y | G | G | G | R | R | R | R | R | R | R | R | R | R | DW | DW |
| CLEARANCE A CHANGE | R | R | Y | Y | Y | R | R | R | R | R | R | R | R | R | R | DW | DW |
| PRE-EMPTION PHASE | R | R | R | R | R | R | R | R | R | R | FL/8"Y | FL/8"Y | R | R | R | DW | DW |
| PRE-EMPTION CHANGE | R | R | R | R | R | R | R | R | R | R | Y | Y | R | R | R | DW | DW |
| FLASHING OPERATION | FL/8"Y | FL/8"Y | FL/Y | FL/Y | FL/Y | FL/Y | FL/Y | FL/R | FL/R | FL/R | FL/R | FL/R | FL/R | FL/R | FL/R | DARK | DARK |

WIRING KEY

A } 5-CONDUCTOR ELECTRICAL CABLE (NO. 14 A.W.G.)
B }
C } 2-CONDUCTOR ELECTRICAL CABLE (NO. 14 A.W.G.)
D - STRANDED BARE COPPER GROUND WIRE (NO. 6 A.W.G.)
PF - EXISTING UNDERGROUND SERVICE
EX - TIE INTO EXISTING CABLE

TOD No: AT355-20
SHA: WO421A58/ B58
Worcester Co.

STATE OF MARYLAND
DEPARTMENT OF TRANSPORTATION
STATE HIGHWAY ADMINISTRATION
OFFICE OF TRAFFIC & SAFETY
TRAFFIC ENGINEERING DESIGN DIVISION

MD 528 (PHILADELPHIA AVENUE) AT 15TH STREET
OCEAN CITY, MARYLAND

GENERAL INFORMATION SHEET

| | | |
|---------------------|---------------------|------------------------|
| SCALE 1"= 20' | DATE 01/20/06 | CONTRACT NO. AT3555185 |
| DESIGNED BY TC /MRB | COUNTY WORCESTER | |
| DRAWN BY TC /MRB | LOGMILE 23052807.57 | |
| CHECKED BY DAE /SMH | TIMS NO. H292 | |
| FAP NO. | TOD NO. | |
| TS NO. 571G-GI | DRAWING - OF | SHEET NO. 2 OF 18 |

RK & K
RUMMEL, KLEPPER & KAHL, LLP
CONSULTING ENGINEERS
81 MOSHER STREET
BALTIMORE, MARYLAND 21217
TELE: (410) 728-2900 FAX: (410) 383-3270